AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows:

1. - 14. (Canceled)

15.　　(Currently Amended) A method comprising:

receiving network data; ~~and~~

processing the network data at a decoder chain to create input data for applying at least multi-dimensional content profiling;

preventing, through the network data, leaks of information by at least applying the multi-dimensional content profiling; and

wherein the multi-dimensional content profiling comprises:

loading one or more profiles, wherein the one or more profiles each comprise an expected set of statistical characteristics of data;

continuously receiving the input data from the decoder chain;

determining a probabilistic measure of membership of the input data relative to the one or more profiles;

comparing the probabilistic measure with a threshold requirement for each of the one or more profiles; and

generating a reactive measure if the probabilistic measure meets the threshold requirement.

16.　　(Original) The method of claim 15, wherein the information includes a digital asset.

17.　　(Original) The method of claim 15, wherein the multi-dimensional content profiling takes into account the structure of the information.

18.　　(Canceled)

19.　　(Canceled)

20.   (Currently Amended) A machine-readable medium having encoded information, which when read and executed by a machine causes a method comprising:

receiving network data; ~~and~~

processing the network data at a decoder chain to create input data for applying at least multi-dimensional content profiling;

preventing, through the network data, leaks of information by at least applying multi-dimensional content profiling; and

wherein the multi-dimensional content profiling comprises:

loading one or more profiles, wherein the one or more profiles each comprise an expected set of statistical characteristics of data;

continuously receiving the input data from the decoder chain;

determining a probabilistic measure of membership of the input data relative to the one or more profiles;

comparing the probabilistic measure with a threshold requirement for each of the one or more profiles; and

generating a reactive measure if the probabilistic measure meets the threshold requirement.

21.   (Canceled)

22.   (Canceled)

23.   (Currently Amended) An apparatus comprising:

a receiver to receive network data; ~~and~~

a processor, coupled to the receiver, to prevent, through the network data, leaks of information by at least applying multi-dimensional content profiling, wherein the processor processes the network data at a decoder chain to create input data for applying at least the multi-dimensional content profiling;

the multi-dimensional content profiling comprising:

loading one or more profiles, wherein the one or more profiles each comprise an expected set of statistical characteristics of data;

continuously receiving the input data from the decoder chain;

determining a probabilistic measure of membership of the input data relative to the
one or more profiles;

comparing the probabilistic measure with a threshold requirement for each of the
one or more profiles; and

generating a reactive measure if the probabilistic measure meets the threshold
requirement.

24.   (New) The method of claim 15, wherein processing the network data at the decoder
chain comprises extracting data by removing one or more layers of content encoding selected from
the group consisting of common compression, aggregation, file formats, encoding schemas, and
combinations thereof.

25.   (New) The method of claim 15, further comprising creating the profile by:
loading positive training sets of documents;

representing each document from the positive training sets of documents as a point in
multi-dimensional space;

separating the individual points in the multi-dimensional space with a set of hyperplanes
wherein the set of hyperplanes effectively separate the multi-dimensional space into regions
representing the positive training sets of documents; and

converting the set of hyperplanes into the profile.

26.   (New) The method of claim 25, further comprising creating the profile by:
loading negative training sets of documents;

representing each document from the negative training sets of documents as a point in
multi-dimensional space;

separating the individual points in the multi-dimensional space with a set of hyperplanes
wherein the set of hyperplanes effectively separate the multi-dimensional space into regions
representing the negative training sets of documents; and

converting the set of hyperplanes into the profile.

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27.   (New) The method of claim 15, wherein determining the probabilistic measure comprises updating one or more counters in a predetermined order, calculating values of output dimensions based on the one or more counters, and calculating an output score based on the output dimensions wherein the output score represents the probabilistic measure.

28.   (New) The method of claim 15, wherein the preventing operates in real-time.

29.   (New) The method of claim 15, further comprising terminating sessions with leaks of information before the network data is fully transferred.

30.   (New) The method of claim 15, further comprising preventing, through the network data, leaks of information by also applying keyword scanning.

31.   (New) The machine-readable medium of claim 20, wherein the profile is created by:
       loading positive training sets of documents;
       representing each document from the positive training sets of documents as a point in multi-dimensional space;
       separating the individual points in the multi-dimensional space with a set of hyperplanes wherein the set of hyperplanes effectively separate the multi-dimensional space into regions representing the positive training sets of documents; and
       converting the set of hyperplanes into the profile.

32.   (New) The machine-readable medium of claim 31, wherein the profile is created by:
       loading negative training sets of documents;
       representing each document from the negative training sets of documents as a point in multi-dimensional space;
       separating the individual points in the multi-dimensional space with a set of hyperplanes wherein the set of hyperplanes effectively separate the multi-dimensional space into regions representing the negative training sets of documents; and
       converting the set of hyperplanes into the profile.

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33.   (New) The machine-readable medium of claim 20, further comprising receiving the network data at a decoder chain prior to implementing the multi-dimensional content profiling, wherein the decoder chain extracts data by removing one or more layers of content decoding selected from the group consisting of common compression, aggregation, file formats, encoding schemas, and combinations thereof.

34.   (New) The machine-readable medium of claim 20, wherein the multi-dimensional content profiling further comprises establishing a connection with an alert module prior to sending the reactive measure.

35.   (New) The machine-readable medium of claim 20, wherein the calculating the set of output dimensions comprises determining one or more values for each counter and combining the one or more values for each counter to create the set of output dimensions.

36.   (New) The apparatus of claim 23, wherein the calculating an output score is performed for each of the one or more profiles.

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